

**AMENDMENTS TO THE SPECIFICATION**

Page 1, line 9, delete "in" and insert ~~en~~.

Page 1, line 17, after "availability" insert ~~,~~.

Page 2, line 4, delete "service" and insert ~~Service~~.

Page 2, line 4, delete "providers" and insert ~~Providers~~.

Page 2, line 10, after "However" insert ~~,~~.

Page 2, line 10, delete "the" first occurrence.

Page 2, line 21, delete "and" first occurrence.

Page 2, line 21, after "(MPLS)" insert ~~,~~.

Page 2, line 22, delete "per-flow" and insert ~~per flow~~.

Page 3, line 3, after "forwarding" insert ~~,~~.

Page 3, line 5, after "Models" delete ~~,~~.

Page 3, line 5, after "MPLS" delete ~~,~~.

Page 3, line 15, delete "Core" and insert ~~The core~~.

Page 3, line 20, after "routers" delete ~~,~~.

Page 4, line 1, delete "the" and insert ~~an~~.

Page 4, line 5, delete "drop" and insert ~~drops~~.

Page 4, line 5, delete "There have been numerous" and insert ~~Numerous~~.

Page 4, line 6, after "algorithms" insert ~~have been~~.

Page 4, line 6, delete ". While" and insert ~~and while~~.

Page 4, line 6, delete "of these".

Page 4, line 9, after "Info" insert ~~,~~.

Page 4, line 9, delete "Com" and insert ~~Comm~~.

Page 4, line 9, delete "scaleable" and insert ~~scalable~~.

Page 4, delete lines 14-24.

Page 5, delete lines 1-2.

Page 5, line 19, delete "6 b" and insert ~~6b~~.

Page 5, line 20, delete "kr".

Page 5 line 22, after ";" insert ~~and~~.

Page 6, line 1, after "8b" insert ~~,~~.

Page 6, line 4, insert "A measurement-based admission control algorithm is based on the global effective envelopes of an arriving traffic aggregate and upon the service curves of the corresponding departing traffic aggregate. Such an admission control algorithm is well adapted to a variety of different network models. Although the algorithm will be principally described in the context of a multi-router network, the concepts employed are equally applicable to autonomous network systems and even switching devices. In a switching device, for example, the switch hardware/software provides for several input ports and output ports. The present invention may be used to control traffic flow among these input and output ports. Therefore, this algorithm is applicable to "networks" of different architectural granularities, ranging from single-device switches to large, multiple-device computer network domains."

Page 6, line 5, delete "." first occurrence.

Page 6, line 6, after "14" insert ~~,~~.

Page 6, line 8, delete "the" first occurrence.

Page 6, line 8, after "18" insert ~~,~~.

Page 6, line 9, after "node" second occurrence insert ~~18~~.

Page 6, line 10, after "node" insert ~~—20—~~.

Page 6, line 11, after "illustration" insert ~~—,—~~.

Page 6, line 11, delete "the".

Page 6, line 11, after "from" insert ~~—a second—~~.

Page 6, line 12, after "illustration" insert ~~—,—~~.

Page 6, line 13, delete "the edge router 26 includes".

Page 6, line 13, after "conditioner" insert ~~—or regulator—~~.

Page 6, line 13, delete ", limiting" and insert ~~—limits—~~.

Page 6, line 14, after "traffic" insert ~~—22—~~.

Page 6, line 14, after "." insert — The traffic conditioner 28 may be located within the second network 24 (such as in edge router 26). The traffic conditioner or regulator 28 may be implemented at the ingress node 18 to force arriving traffic to comply with the traffic specification submitted by the sender. The traffic conditioner or regulator 28 may be modeled as a leaky bucket that provides a simple metering function. Alternatively, the traffic conditioner 28 may provide more sophisticated traffic shaping functions where the temporal characteristics of a traffic class are selectively modified by delaying local packet forwarding.—.

Page 6, line 15, after "illustration" insert ~~—,—~~.

Page 6, line 15, delete "the".

Page 6, line 17, after "34" insert ~~—to determine—~~.

Page 6, line 21, delete "plural" and insert ~~—multiple—~~.

Page 6, line 22, delete "In accordance with the invention the" and insert ~~—The—~~.

Page 7, line 1, delete "the" first occurrence and insert ~~-a-~~.

Page 7, line 2, delete "the" first occurrence.

Page 7, line 3, delete "the".

Page 7, line 3, after "traffic" first occurrence insert ~~-22-~~.

Page 7, line 3, after "traffic" second occurrence insert ~~-46,-~~.

Page 7, line 4, after "traffic" insert ~~-30-~~.

Page 7, line 4, delete "some of the".

Page 7, line 5, delete "presently preferred".

Page 7, line 5, delete "The".

Page 7, delete lines 6-13.

Page 7, line 16, after "rate" insert ~~-,~~.

Page 7, line 16, after "traffic" third occurrence, insert ~~-22-~~.

Page 7, line 22, after "traffic" second occurrence, insert ~~-22-~~.

Page 7, line 23, after "traffic" insert ~~-46-~~.

Page 8, line 1, after "10" insert ~~-,~~.

Page 8, line 1, delete "represents" and insert ~~-is called-~~.

Page 8, line 4, delete "The " and insert ~~-One variation of the-~~.

Page 8, line 4, delete "of the presently preferred embodiment".

Page 8, line 5, after "traffic" insert ~~-22-~~.

Page 8, line 6, after "traffic" insert ~~-30-~~.

Page 8, line 7, after "traffic" insert ~~-22-~~.

Page 8, line 7, delete "to meet the desired QoS requirements".

Page 9, line 6, after "the" insert ~~-global-~~.

Page 9, line 10, delete "Next the" and replace with ~~-The-~~.

Page 9, line 10, delete "to construct a" and replace with ~~-, where-~~.

Page 9, line 11, delete ~~","~~.

Page 9, line 11, before "based" insert ~~-is constructed-~~.

Page 9, line 19, after "both" insert ~~-global-~~.

Page 9, line 19, after "72" insert ~~-, -~~.

Page 10, line 2, delete "detained" and insert ~~-detailed-~~.

Page 10, line 2, after "and" insert ~~-, -~~.

Page 10, line 6, after "illustration" insert ~~-, -~~.

Page 10, line 6, delete "DirServ" and insert ~~-Diffserv-~~.

Page 10, line 11, delete "use" and insert ~~-uses-~~.

Page 10, line 16, delete "to".

Page 10, line 20, delete "Those".

Page 10, line 20, after "PDBs" insert ~~-, an active area of research, -~~.

Page 10, line 20, delete "in their terms".

Page 10, line 22, delete "The definition of PDBS is an active area of".

Page 10, line 23, delete "research, with the first few drafts currently available].

Hence ".

Page 10, line 24, delete "traffic aggregate" and insert ~~-an aggregate traffic-~~.

Page 11, line 2, delete "a" second occurrence and insert ~~-the-~~.

Page 11, line 6, before "Bandwidth" insert ~~-A -~~.

Page 11, line 7, delete "the" and insert ~~-an-~~.

Page 11, line 7, delete ~~","~~.

Page 11, line 15, after "if" first occurrence, insert --.

Page 12, line 2, delete "described" and insert --describe--.

Page 12, line 4, delete ", which" and insert --that--.

Page 12, line 4, delete ", " second occurrence.

Page 12, line 13, delete "low" and insert --flow--.

Page 12, line 18, delete "arriving traffic into" and insert --traffic arriving to--.

Page 13, line 7, delete "is".

Page 13, line 11, after "bucket" insert --.

Page 13, line 17, delete "can" and insert --still--.

Page 13, line 21, delete ", ".

Page 15, line 17, delete "Let" and insert --Defining--.

Page 15, line 17, delete "then".

Page 15, line 21, delete "note" and insert --noted--.

Page 16, line 13, delete "perform" and insert --created in--.

Page 16, line 20, delete "envelope" and insert --envelopes--.

Page 16, line 21, delete "." and insert --.

Page 16, line 22, delete ". In" and insert --.

Page 16, line 22, delete "INFO COMM" and insert --Info. Comm--.

Page 17, line 1, delete "." first occurrence.

Page 17, line 5, delete "local" and insert --Local--.

Page 17, line 5, delete "envelopes" and insert --Envelopes--.

Page 17, line 6, delete "and we" and insert --, allowing us to--.

Page 17, line 10, delete "has" and insert --have--.

Page 17, line 11, after "time" insert --, and--.

Page 17, line 12, delete "again".

Page 17, line 14, delete "which".

Page 17, line 17, delete ",", first occurrence and insert --;--.

Page 18, line 6, delete "A" and insert --When a--.

Page 18, line 6, delete "request" and insert --requests the--.

Page 18, line 6, delete ". The" and insert --, the--.

Page 19, line 1, delete "and".

Page 19, line 2, delete ",".

Page 19, line 2, after "be" insert --the--.

Page 19, line 4, delete "If" and insert --if--.

Page 19, line 6, after "N" insert --,--.

Page 19, line 12, delete "From" and insert --Using--.

Page 19, line 13, delete ",".

Page 19, line 16, delete "Remark:".

Page 19, line 17, after "If" insert --,--.

Page 19, line 17, after "class" insert --,--.

Page 19, line 18, delete "for".

Page 19, line 19, delete "which have" and insert --sharing--.

Page 19, line 19, delete "it is required to construct their" and insert --have a different envelope--.

Page 20, line 4, after "and" insert --an--.

Page 20, line 9, delete "the" second occurrence.

Page 20, line 20, delete "just a".

Page 20, line 20, delete "flows" second occurrence.

Page 20, line 23, after "provides" insert -a-.

Page 21, line 7, delete "." and insert -,-.

Page 21, line 11, delete "." first occurrence.

Page 21, line 11, after "al." insert -,-.

Page 21, line 11, delete "term" and insert -terms-.

Page 21, line 12, delete "that is" and insert -which are-.

Page 21, line 13, delete "With these" and insert -These-.

Page 21, line 14, delete ", it yields" and insert -yield-.

Page 21, line 21, delete "provide the".

Page 21, line 22, delete "use" and insert -using-.

Page 21, line 23, delete "their" and insert -that-.

Page 21, line 24, delete "guarantees" and insert -guarantee-.

Page 21, line 25, after "priority" insert -,-.

Page 21, line 25, delete "all" and insert -each of-.

Page 22, line 11, delete "envelopes" and insert -Envelopes-.

Page 22, line 16, after "in" insert -Boorstyn, et al-.

Page 22, line 18, delete "we" second occurrence.

Page 22, line 20, after ")" second occurrence, insert -,-.

Page 22, line 20, after "violation" delete -,-.

Page 22, line 21, delete "," first and second occurrence.

Page 22, line 22, delete "has" and insert -have-.

Page 22, line 23, after "time" insert —, and—.

Page 23, line 2 delete "again  $D_N(t)$ " and insert — $D_N(t)$  again—.

Page 23, line 3, delete "which".

Page 23, line 6, delete "," first occurrence and insert —;—.

Page 24, line 3, delete "A" and insert —Suppose a—.

Page 24, line 3, delete "request" and insert —requests the—.

Page 24, line 6, delete ",".

Page 24, line 20, delete "Given a" and insert —A—.

Page 24, line 20 delete "that".

Page 24, line 21, delete ",".

Page 24, line 21, after "be" insert —the—.

Page 25, line 1, delete "If" and insert —if—.

Page 25, line 3, after "N" insert —,—.

Page 25, line 4, delete "a" and insert —the—.

Page 26, line 2, delete "From" and insert —Using—.

Page 26, line 3, delete ",".

Page 26, line 6, delete "Remark:"

Page 26, line 7, after "If" insert —,—.

Page 26, line 7, after "class" insert —,—.

Page 26, line 8, delete "for".

Page 26, line 9, delete "which have" and insert —sharing—.

Page 26, line 9, delete "it is required to".

Page 26, line 10, delete "construct their" and insert —require a different envelope—.

- Page 26, line 16, after "and" insert ~~an~~.
- Page 27, line 9, after "," insert ~~and~~.
- Page 27, line 13, delete "calculate" and insert ~~calculates~~.
- Page 27, line 14, delete " $\beta$ ," and insert  ~~$\beta$~~ .
- Page 27, line 15, delete "therefore we can" and insert ~~We can therefore~~.
- Page 28, line 7, delete ",".
- Page 28, line 7, after "(3.11)" insert ~~,~~.
- Page 28, line 12, delete "provide the".
- Page 28, line 13, delete "use" and insert ~~using~~.
- Page 28, line 19, delete "the".
- Page 28, line 19, after "flows" insert ~~,~~ which have~~.~~
- Page 28, line 20, delete "with".
- Page 28, line 20, after " $G_{new}(\tau, \beta, \varepsilon_q / 2)$ " insert ~~,~~.
- Page 29, line 7, delete " , based on,".
- Page 29, line 20, delete "We note that in, the average and variance of arriving traffic".
- Page 29 delete line 21.
- Page 29, line 22, delete "amount of an arriving traffic. Again let" and insert ~~Let~~.
- Page 29, line 23, delete "the" second occurrence.
- Page 30, line 1, delete " ," first occurrence and insert ~~;~~.
- Page 30, line 3, delete " ,".

Page 30, line 4, delete "We consider at the current time  $t$ . Then the" and insert –  
The–.

Page 30, line 5, after "time" insert –  $t$ –.

Page 30, line 18, delete "Remark: ".

Page 30, line 18, delete "Choosing".

Page 30, line 19, delete "an" and insert –An–.

Page 30, line 19, delete "characterize" and insert –characterizing–.

Page 30, line 20, delete "overestimate" and insert –overestimating–.

Page 31, line 2, delete "the changing. The further" and insert –such changes.  
Further–.

Page 31, line 3, delete "Knightly." and insert –Knightly,–.

Page 31, line 4, delete "." insert –,–.

Page 31, line 4, delete "INFO COMM" and insert –Info. Comm.–.

Page 31, line 5, delete "Grossglauser." insert – Grossglauser,–.

Page 31, line 6, delete "." insert –,–.

Page 31, line 6, delete "INFO COMM" and insert –Info. Comm.–.

Page 31, line 9, delete "Figure" and insert –Figures–.

Page 31, line 9, delete "6(a)" first and second occurrence and insert –6a–.

Page 31, line 9, delete "(b)" and insert –6b–.

Page 31, line 10, delete ". While" and insert –, while–.

Page 31, line 10, delete "6(b)" and insert –6b–.

Page 31, line 13, delete "the" second occurrence and insert –a–.

Page 31, line 14, delete "the" and insert –an–.

Page 31, line 15, delete "quite".

Page 31, line 16, delete "which indicates its" and insert ~~indicating~~.

Page 32, line 1, delete "at the" and insert ~~a~~.

Page 32, line 3, after "Hence" insert ~~,~~.

Page 32, line 6, after "packet" insert ~~remains~~.

Page 32, line 13, delete "is" and insert ~~be~~.

Page 32, line 15, delete "the number of" and insert ~~k~~.

Page 32, line 15, delete " $= k$ ".

Page 32, line 16, delete ",", second occurrence.

Page 32, line 21, delete "and satisfies" and insert ~~which satisfy~~.

Page 33, line 12, delete "7(a)" and insert ~~7a~~.

Page 33, line 13, delete "622-Mbps" and insert ~~622 Mbps~~.

Page 33, line 15, delete "7(b)" and insert ~~7b~~.

Page 34, line 2, delete "another".

Page 34, line 2, after "envelopes" insert ~~for admitted flows~~.

Page 34, line 5, delete "Section as follows" and insert ~~the previous section~~.

Page 34, line 16, delete "another".

Page 34, line 19, delete "Section as follows" and insert ~~the previous section~~.

Page 35, line 3, delete "that" first occurrence and insert ~~a case where~~.

Page 35, line 3, delete "that is" and Insert ~~i.e.~~.

Page 35, line 8, delete "has" and insert ~~have~~.

Page 35, line 9, delete "of".

Page 35, line 10, before "cross" insert ~~amount of~~.

Page 35, line 10, delete "is" and insert ~~are~~.

Page 35, line 14, delete "8(a)" and insert ~~8a~~.

Page 35, line 16, delete "8(b)" and insert ~~8b~~.

Page 35, line 18, delete "8(c)" and insert ~~8c~~.

Page 35, line 20, delete "also".

Page 35, line 21, delete "with" and insert ~~requesting~~.

Page 35, line 21, delete "of".

Page 35, line 23, delete "the".

Page 36, line 6, delete "the" second occurrence.

Page 36, line 6, delete "proposes" and insert ~~purposes~~.

Page 36, line 12, delete "connection" and insert ~~connections~~.

Page 36, line 13, delete "long term" and insert ~~long-term~~.

Page 36, line 15, delete "as" and insert ~~is~~.

Page 36, line 16, delete "is depicted".

Page 36, line 19, delete "the" third occurrence.

Page 36, line 20, delete "Fig 8(a)" and insert ~~Figure 8a~~.

Page 36, line 20, delete "msec" and insert ~~ms~~.

Page 36, line 21, delete "respectively. While" and insert ~~while~~.

Page 36, line 22, delete "obtain" and insert ~~achieve~~.

Page 37, line 2, delete "8(b)-(c)" and insert ~~8b-8c~~.

Page 37, line 2, delete "obtain the" and insert ~~determine an~~.

Page 37, line 3, after "traffic" insert ~~,~~.

Page 37, line 4, delete "the" first and second occurrence.

Page 37, line 5, delete "present invention".

Page 37, line 6, delete "provides a".

Page 37, line 6, delete "that".

Page 37, line 6, delete "the".

Page 37, line 8, delete "traffic aggregate. Based on the measurement, the" and insert –aggregate traffic. The–.

Page 37, line 12, delete "the" first and second occurrence.

Page 37, line 14, delete "may application" and insert –many applications–.

Page 37, line 16, delete "appended".